

AMENDMENTS TO THE SPECIFICATION

Please delete the first three full paragraph of the specification, beginning on page 2, line 8 and ending on page 3, line 2, and replace them with the following new paragraphs:

Brief Description of the Drawings

According to the invention, this object is achieved by the constellation information transmitting arrangement defined by claim 1, and the constellation information receiving arrangement defined by claim 7.

Indeed, by grouping the carriers in subsets and by transmitting for each subset only a limited set of parameter values as constellation information from which the constellation of each carrier in the subset can be derived through interpolation, the size of the constellation information message to be transferred is reduced significantly. Consider for instance a multi-carrier system with N carriers, with e.g. $N=4096$. The carriers are indexed from 0 to $N-1$.

Detailed Description of the Invention

The set of carriers is split into M subsets of carriers, S_n , with e.g. $M=8$. To each subset is associated a set of L parameters P_n , with e.g. $L=2$. Two interpolation functions B and G are defined so that the number of bits and the gain for the carrier with index k belonging to subset S_n respectively equals $B_k=B(k,P_n)$ and $G_k=G(k,P_n)$. Instead of N times the bits and gains information for a carrier, only M times L parameter values have to be encapsulated in the constellation information message. According to the present invention, this message also may contain the description of the carrier subsets, the parameters, and the interpolation functions. It is however more preferably to describe the subsets, parameters and functions a priori, for example

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in a standard specification such as VDSL (Very High Speed Digital Subscriber Line) standard
specification, currently under development.

**Please insert the following headings and paragraph after the paragraph that ends
on line 21 of page 4:**

Brief Description of the Drawings

B2
The drawing Fig. is a functional block scheme of a multi-carrier receiver RX comprising
an embodiment of the constellation information receiving arrangement BiGi RA according to
the present invention.

Detailed Description of the Preferred Embodiment
